Z/009/63/000/004/001/002
E112/E435

AUTHORS: Mýl Jiří, Šolc Zdeněk

TITLE: Method for the determination of velocity and direction of stream lines

PERIODICAL: Chemický průmysl, no.4, 1963, 189-190

TEXT: The method is based on the use of suspended fluorescent anthracene particles lighted with UV light to give photographs in black-and-white or color film with a conventional camera and a timed exposure. Anthracene, purified by distillation from an ethylene glycol solution at 197°C gave a product of sufficient purity and strong fluorescence in daylight. Its particle density is quite close to that of the liquid and settling out is minimized. The slight solubility of anthracene in water caused a complication and this was obviated by using an electrolyte solution instead of water. Dispersed anthracene particles can also be utilized in the study of stream line patterns in gases. A block diagram of the unit is shown and a photograph of an air stream line pattern in a sublimation apparatus presented. There are 2 figures.

ASSOCIATION: Vysoká škola chemickotechnologická, Pardubice (University of Chemical Technology, Pardubice)

Card 1/1 SUBMITTED: August 6, 1962

S[illegible], Mihai

[illegible] 1

[illegible], Aurelia; [illegible], [illegible].

[illegible], Comunicarile Academiei Republicii [illegible], Vol XIII, No 1[illegible], 1963, pp 1089-1093

"Presence of the Hildoceratidae Bifrons Zone in the [illegible] Synclinal." (Paper presented by Academician [illegible] at the meeting of 13 June [illegible].)

NASTASEANU, Aurelia; SOLCANU, Mihai.

On the presence of a zone with Hildoceras bifrons in the Haghimas-Ciuc Syncline. Comunicarile AR 13 no.12:1089-1093 D'63.

1. Comunicare prezentata de academician M.G.Filipescu.

SOLCHANI, Pal

New method of describing the expansion of a fluidized bed. Khim. prom. no.4:267-269 Ap '61. (MIRA 14:4)

1. Universitet khimicheskoy promyshlennosti, Vesprem, Vengerskaya Narodnaya Respublika.
(Fluidization)

[illegible], I.I. [Kolbenga, Ya.]

Kinetic anomalies in catalytic contact reactions in small-sized fluid catalyst beds. Zhur. fiz. khim. 36 no.3:513-517 Mr '62. (MIRA 17:6)

1. Institut khimicheskoy promyshlennosti, Vengriya.

SAFARYAN, Misak Karapetovich, kand. tekhn.nauk; IVANTSOV, Oleg Maksimovich, inzh.; RABINOVICH, Ye.Z., red.; SOLOHANIK, G.Ya., red.; FEDOTOVA, I.G., tekhn.red.

[Design and construction of steel tanks for petroleum products] Proektirovanie i sooruzhenie stal'nykh rezervuarov dlia nefteproduktov. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 325 p. (MIRA 14:5)
(Petroleum products--Storage)

CHASOVITIN, Yu.K.; SOLCHATOVA, L.Ya.

Dependence of E-layer characteristics on the susceptibility of the receiving apparatus. Geomag. i aer. 3 no.5:938-947 S-O '63. (MIRA 16:11)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

SOLCOVA, Jitka; LANC, Josef

Evaluation of glass reinforced plastics by microscopic analysis. Part 1: Preparation of samples. Chem prum 12 no.11:628-633 N '62.

1. Statni vyzkumny ustav materialu a technologie, Praha.

FARSKY,Jiri; KOMENDA, Stanislav; POSPISIL, Edvard; SCHOBER, Bruno; SPITALSKY, Jiri; Techn. assistance:JANKOVA,E; KUBICOVA.M.; PALENCAROVA,V.: SOLCOVA,V.

Electroshock seizures in rat after X-irradiation. Sborn. ved.prac.lek.fak.Karlov.Univ.(Hrad.Kral.) 6 no.1:77-80 '63.

1. Institute of Medical Physics, Palacky University, Olomouc; head: CSc,doc.Bruno Schober, M.D.

CZECHOSLOVAKIA UDC 615.517:613.287)-053.8

SOLCOVA, M.; SOLC, P.; MOKRY, Z.; Chair of Natural Sciences, Pathological Institute (Katedra Prirodnich Ved Patologickeho Institutu), Karlovy Vary, Head (Vedouci) A. PYSEK; Sanitarium (Lecebny Ustav) Moskva, Czechoslovak State Spa (Cs. St. Lazni), Karlovy Vary, Head (Primar) Dr P. SOLC; Institute of Hygiene (Ustav Hygieny), Prague, Director (Reditel) Prof Dr K. SYMON.

"Tolerance of Cow's Milk in Relation to Some Dietary Habits of Healthy Adults."

Prague, Casopis Lekaru Ceskych, Vol 105, No 32, 15 Aug 66, pp 849 - 853

Abstract [Authors' English summary modified]: Occurrences of milk tolerance and of milk intolerance related to the occurrence of bitter regurgitation , and the frequency of stool in a group of 218 healthy university students is discussed. 2 Figures, 1 Table, 13 Western, 4 Czech references. (Manuscript received Nov 65).

1/1

Soldadov, V.K.

SOMOV, V.A.; KUZ'MENKOV, O.P.; SOLDADOV, V.K.; ZINCHENKO, V.I., spets. red.; KOTLYAKOVA, O.I., tekhn. red.

[Electric indicators and their use in testing marine internal combustion engines] Elektricheskie indikatory i ikh primenenie pri ispytaniiakh sudovykh DVS. Leningrad, Izd-vo "Morskoi transport," 1958. 217 p. (MIRA 11:7)

(Marine engines--Testing)

BOLDAK, Yu.I., LAVRINENKO, P.T.

Purifying paraffin for the food industry. Neftepererab. i neftekhim. no.8:42-43 '64. (MIRA 17:10)

1. Nadvornyanskiy neftepererabatyvayushchiy zavod.

RAFALOWICZ, A.; SOLDAJ, H.; WOIANSKA, A.

Aldonase & its clinical importance. Polski tygod. lek. 13 no.1: 25-26 6 Jan 58.

1. (Z I Zakladu Chorob Wewnetrznych I. D. i S.K.L. przy Instytucie Gruzlicy; kierownictwo: prof dr A. Landau i prof. dr B. Wisniewski) Adres: Warszawa, ul. Pulawska 176/178.
(DESMOLASES
aldolase (Pol))

RAFALOWICZ, Adam; MULLER, Jerzy; SOLDAJ, Hermenegilda; WOIANSKA, Aniela

Results of determination of glutamic oxalacetic transaminase activity with colorimetric method in healthy persons. Polski tygod. lek. 13 no.40: 1554-1555 6 Oct 58.

1. Z Oddzialu Chorob Wewnetrznych Studium Doskalenia Lekarzy oraz Instytutu Gruzlicy w Warszawie; kierownik: prof. dr med. Walenty Hartwig. Adres: Inst. Gruzl. W-wa, ul. Plocka 26.

(TRANSAMINASES, in blood
glutamic oxalacetic transaminase determ., colorimetric method (Pol))

RAFALOWICZ, Adam; MULLER, Jerzy; SOLIMJ. H.; WOIANSKA, Alicja

Studies on blood aldolase in various internal diseases. Polskie tygod. lek. 14 no.1:4-7 Jan 59.

1. (Z Oddzialu Chorob Wewnetrznych Instytutu Gruzlicy i I Zakladu Chorob Wewnetrznych Studium Doskonalenia Lekarzy w Warszawie; Kierownik: prof. dr med. W. Hartwig). Adres: Warszawa, ul. Plocka 26, Instytut Gruzlicy.

(DESMOIASES, in blood
zymohexase in internal dis. (Pol))

RAFALOWICZ, Adam; MIGDALSKA, Barbara; MULLER, Jerzy; SOLDAJ, Hermenegilda; SZYMANSKA, Danuta; WASNIEWSKA, Maria; WOLANSKA, Aniela

On diagnostic possibility of the "active" phase of rheumatic disease in the light of clinical, biochemical and histopathological studies. Report I. Behavior of aldolase, transaminase and of certain other laboratory and clinical indices in patients subjected to surgical interventions on the bicuspid valve. Polski tygod.lek.15 no. 10:329-342 7 Mr '60.

1. Z Oddzialu Chorob Wewnetrznych Instytutu Gruzlicy; ordynator: prof.dr.med. Walenty Hartwig, z Oddzialu Chirurgicznego Instytutu Gruzlicy; ordynator: prof.dr.med. L. Manteuffel i z Zakladu Anatomii Patologicznej Instytutu Gruzlicy; kierownik: prof.dr.med. S. Chodkowska.

(MITRAL VALVE surg.)
(ALCOLASE blood)
(TRANSAMINASES blood)
(C-REACTIVE PROTEIN)
(ANTISTREPTOLYSIN blood)

RAFALOWICZ, Adam; MULLER, Jerzy; SOLDAJ, Hermenegilda; WOLANSKA, Aniela

On possitilities for the utilization of enzymatic studies in the diagnosis of rheumatic disease. Report II. Polski tygod.lek. 15 no.17:617-621 25 Ap.'60.

1. Z Oddzialu Wewnetrznego Instytutu Gruzlicy w Warszawie; kierownik: prof. dr. med. Walenty Hartwig.
(RHEUMATIC HEART DISEASE metab.)
(ENZYMES metab.)

SZYMANSKA, Danuta; RAFALOWICZ, Adam; MIGDALSKA, Barbara; MULLER, Jerzy; SOLDAJ, Hermenegild; WASNIEWSKA, Maria; WOLANSKA, Aniela

Comparison of the results of biopsy of the left auricle with clinical and laboratory data, with special consideration of the behavior of serum enzymatic activity. Part I. Histopathological lesions in samples from the left heart auricle collected during commissurotomy. Polskie arch.med.wewn. 30 no.3:403-410 '60.

1. Z Oddzialu Patologii Instytutu Gruzlicy. Kierownik: prof.dr med. S. Chodkowska. Z Oddzialu Wewn.Instytutu Gruzlicy. Kierownik: prof.dr med. W. Hartwig i z Oddzialu Chirurgii Instytutu Gruzlicy Kierownik: prof.dr med. L. Manteuffel.
(MITRAL STENOSIS pathol.)
(ENZYMES blood)

RAFALOWICZ, Adam; SZYMANSKA, Danuta: MIGDALSKA, Barbara; MULLER, Jerzy; SOLDAJ, Hermenegilda; WASNIEWSKA, Maria; WOLANSKA, Aniela

Comparison of the results of biopsy of the left auricle with clinical and laboratory data, with special consideration of the behavior of serum enzymatic activity. Part II. An attempt at evaluation of diagnostic possibilities concerning the active phase of rheumatic disease in the light of clinical, biochemical and histological investigations. Polskie arch.med.wewn. 30 no.3:411-422 '60.

1, Z Oddzialu Chorob Wewnetrznych Instytutu Gruzlicy. Ordynator: prof.dr med. W. Hartwig. Z Zakladu Anatomii Patologicznej Instytutu Gruzlicy. Kierownik: prof.dr med. S. Chodkowska i z Oddzialu Chirurgicznego Instytutu Gruzlicy. Ordynator: prof.dr med. L. Manteuffel.

(RHEUMATIC HEART DISEASE diag.)
(MITRAL STENOSIS pathol.)

MULLER, Jerzy; RAFALOWICZ, Adam; SOLDAJ, Hermenegilda; WOLANSKA, Aniela

C-reactive protein in internal diseases. Polskie arch. med. wewnetrz. 30 no.12:1511-1519 '60.

1. Z Oddzialu Chorob Wewnetrznych Instytyty Gruzilicy Kierownik: prof. dr med. W. Hartwig Dyrektor: prof. dr med. W. Jaroszewicz.

(C REACTIVE PROTEINS)

[illegible], [illegible]; SOLDAJ, Hermenegilda; KOZACZEK, Wanda

Determination of nitrofurantoin sensitivity of microorganisms causing infections of the urinary tract. Wiad. lek. 18 no.19: 1533-1538 1 O '65.

1. Z Katedry Diagnostyki Laboratoryjnej Studium Doskonalenia Lekarzy w AM w Warszawie (Kierownik Katedry: prof. dr. med. J. Krawczynski).

15-57-4-5374

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 183 (USSR)

AUTHOR: Soldak, A. G.

TITLE: Ground Waters in the Borispol' Region (Kiyevskaya Oblast') /Gruntovi vody Boryspil's'kogo rayonu (Kyyivs'ka oblast')--in Ukrainian/

PERIODICAL: Nauk. zap. Kiyivs'k. un-ta, 1956, Vol 15, Nr 2, pp 167-174.

ABSTRACT: The principal aquifer extends throughout the entire Borispol' region and consists of a thick (30 m to 35 m) bed of older alluvium. The rock is a light gray vari-grained sand with thin layers of sandy loam. Perched water is also found locally. The general direction of flow of the ground water is from east to west, toward the Dnepr, with a gradient of 0.006 and a velocity of 0.01136 m/day. The ground water supply comes from seepage of meteoric water and from the Dnepr overflow during spring floods. The following types of ground

Card 1/2

SOLDAK, A.G. [Soldak, A.H.]; BANNIK, G.I. [Bannyk, H.I.]

Data on the water potential of upper Cretaceous sediments in the southeastern Donets Basin. Nauk.zap.Kyiv.un. 16 no.14:219-222 '57. (MIRA 13:4)

(Donets Basin--Water, Underground)

BANNIK, G.I. [Bannyk, H.I.]; SOLDAK, A.G. [Soldak, A.H.]

Mineral waters in Cretaceous sediments of the axial region of the Black Sea region. Visnyk Kyiv.un.Ser.geol.ta geog. no.1:65-70 '58. (MIRA 12:10)

(Black Sea region--Mineral waters)

Soldak, Yu. V.

USSR.

New methods for purification of ozocerite. Yu. V. Soldak. *Neftyanoe Khoz.* 32, No. 12, 67-8(1954).—The method, applicable to the purification of all ozocerites, including those of high gum and paraffin content, includes recovery of petrolatum. The method was tested on pilot-plant scale and consisted in a mild treatment with H_2SO_4, neutralization, bleaching with bleaching earth, and extn. at low temp. with gasoline, followed by extn. of ozocerite at elevated temps. The exts. were filtered; the solvent was evapd. and reused. W. M. Sternberg

USSR/Physical Chem. Crystals B-5

Abs Jour : Referat Zhur - Khimiya, No 7, 1957, 22057

Author : E. P. Sol'dan

Inst : Not given

Title : Experiments on oxidation of Magnetite into Maggemite .

Orig Pub : In collect. Kristallografiya issue 5, M., Metallurgizdat, 1956, 249-257

Abstract : The process of oxidation of magnetite powder from the Pitkyaranta deposit into maggemite by calcination under normal atmospheric conditions over a period of 1-4 hours at temperatures of 100, 200 and 300° was studied roentgenographically (Debay's method). The existence of series of intermediate compounds with spinel's structure $(Fe^{2}_{1-x}, Fe^{3}_{2/3x}) Fe^{3}_{2} O_4$, where $0 < x < 1$ - was discovered. The same series of transition exist also for other minerals (hausmannite). The transformation of magnetite into maggemite through heating at different temperatures follows two courses: a) the reduction of the parameter of magnetite's lattice and b) the loss of 1/3 Fe^{2} with the formation of hematite. The amount of hematite increases with further heating. At 200° the curve parameter

Card 1/2 -23-

B-5

SOLDAN, Josef, MUDr.

Contribution to diagnosis and therapy of typhoid fever.
Vnitr. lek., Brno 1 no.3:201-202 Mar 55.

1. Z vnitrniho odd. OUNZ--nemocnice v. Kyjove. Prednosta prim. MUDr. J. Soldan, Vnitrni oddeleni, Kyjov, nemocnice.
(TYPHOID FEVER, complications
small intestine perf., diag. & surg.)
(INTESTINE, SMALL, perforation
in typhoid fever, diag. & surg.)

VOZENILEK, Frantisek; VOJTA, Jaroslav; SOLDAT, Petr; CAPEK, Milan

Experience with the equipment for complex automation of reactor control by means of movable detectors. Jaderna energie 9 no.6:201 Je '63.

1. Ustav Jaderneho vyzkumu, Ceskoslovenska akademie ved, Rez u Prahy.

SOLDATCHENKO, A.M.

Treating theileriasis in cattle. Veterinariia 42 no.7:47 Jl '65.
(MIRA 18:9)

1. Nachal'nik veterinarnogo otdela Ministerstva sel'skogo khozyaystva Karakalpakskoy ASSR.

SOLDATCHENKO, G. F.

27089 SOLDATCHENKO, G. F., BELIKH, B. P.; SOLTKOVSKIY, S. A. Iz opyta sinkhronizatsii asinkhronnykh dvigateley po skheme DAG. (S primech. red.) Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1949, No.2, s. 47-48.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

SOLDATCHENKO, G. F.

USSR/Electricity - Capacitors, Power Factor Jun 52

"Experience With the Use of Capacitor Installations for Increasing the Power Factor at Shafts and Pits of the Chelyabinskugol' Combine," Engr G. F. Soldatchenko

Prom Energet, No 6, pp 25-28

Discusses Combine's experience using static capacitors to increase pf with certain (specified by type no) cyclically-loaded, induction-motor-equipped machines (excavators, cutting machines, scraper conveyers, etc). Gives tech specs (including diagrams) for mobile distribution hut (contg transformers, breakers, etc) to supply these machines in conjunction with capacitors. Includes load-cycle graphs for some machines.

248T49

248T49

SOLDATCHENKOV, G. F.

"Selection of a Compensating Device for Reactive Loads to Increase the Coefficient of Power (Cosine "FI") of Electrical Installations in Shafts and Quarries." Cand Tech Sci, Sverdlovsk Mining Inst imeni V.V. Vakhrushev, Min Higher Education USSR, Chelyabinsk, 1954. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

BERGER, A.Ya., professor; SHEFKIND, M.D., inzhener; SOLDATCHENKO, G.F., inzhener.

Increasing the capacity coefficient of electrical installations in industrial enterprises. Elektrichestvo no.1:73-76 Ja '54. (MLRA 7:2)

1. Kemerovenergo (for Shefkind). 2. Chelyabinskugol' (for Soldatchenko). (Electric engineering)

SOLDATCHENKOV, Ivan Alekseyevich

Moscow Medical Stomatological Inst, Academic degree of Doctor of Medical Sciences, based on his defense, 30 August 1954, in the Council of the 1st Moscow Order of Lenin Medical Inst, of his dissertation entitled: "Extra-organ lymphatic vessels of Kidneys, ureters, bladder and their interrelation".

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 9, 16 April 55, Byulleten' MVO SSSR, No. 14, Jul 56, Moscow, pp 4-22, Uncl. JPRS/NY-429

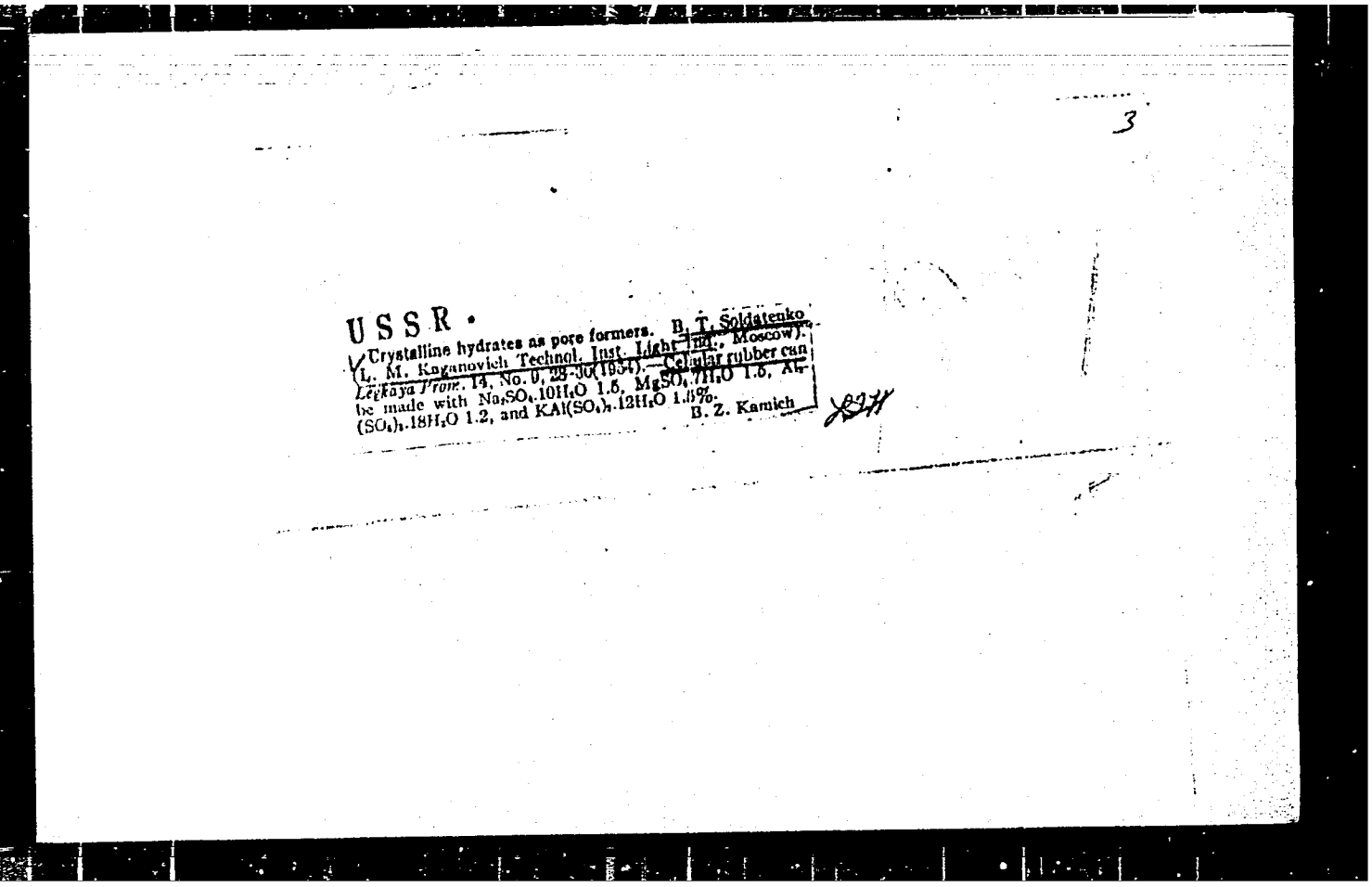
SOLDATCHENKOV, I.A., (Moskva, 49, B. Yakimanka, d. 38, kv. 65)

Testicular arteries in man. Arkh. anat. gist. i embr. 34 no.1:115 Ja-F '57 (MLRA 10:5)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav.-prof. V.V. Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta.
(TESTICLE--BLOOD SUPPLY)

SOLDATENKO, A.R., inzh.

Some data on the salinization of soils by sodium chloride.
Trudy NIIZHT no.28:129-136 '62. (MIRA 16:11)



3

USSR

Crystalline hydrates as pore formers. B. T. Soldatenko. L. M. Kaganovich Technol. Inst. Light Ind., Moscow). *Leĭkaya Prom.* 14, No. 6, 28-30(1954). Cellular rubber can be made with $Na_2SO_4.10H_2O$ 1.5, $MgSO_4.7H_2O$ 1.6, $Al_2(SO_4)_3.18H_2O$ 1.2, and $KAl(SO_4)_2.12H_2O$ 1.5%. B. Z. Kamich

SOLDATENKO, B. T.

Soldatenko, B. T.

"Crystallohydrates as pore formers." Min Higher Education USSR. Moscow Technological Inst of Light Industry imeni L. M. Kaganovich. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

Knizhnaya letopis'
No. 21, 1956. Moscow.

SOLDATENKO, E.I.

Trudovoi podvig sovetskogo naroda
v Velikoi Otechestvennoi voine (Labor achievement of
the Soviet people in the Great Patriotic War). Moskva,
Gospolitizdat, 1954. 296 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

SOLDATENKO, G.M.

The MES-200 electric power generating locomotives. Biul.tekh.-ekon. inform. no.7:68-70 '58. (MIRA 11:9)
(Electric locomotives)

SOLDATENKO, G.M.

The SA-3 detachable tie-tamper unit. Biul.tekh.-ekon.inform. no.1:65-66 '59. (MIRA 12:2)
(Railroads--Ties)

SOLDATENKO, Ivan Nikolayevich[Soldatenko, I.N.]; SOROKA, Nikolay Alekseyevich [Soroka, M.]; DIN'KO, F.M.[Dyn'ko, F.M], red.; KLOKOVA, S.M., tekhn. red.

[Blue flame] Holube polum'ia. Kyiv, Vyd-vo TsK LKSMU "Molod'," 1961. 38 p. (MIRA 15:4)
(Electric welding)

LAZORIN, S.N., kandidat tekhnicheskikh nauk; SOLDATENKO, I.S., inzhener.

Use of pipe furnaces in benzol plants. Koks i khim. no. 4:49-52 '56. (MLRA 9:9)

1. Khar'kovskiy koksokhimicheskiy zavod.
(Kharkov--Coke industry--Equipment and supply) (Furnaces) (Benzene)

SOV/68-58-8-12/28

AUTHORS: Deshalit, G.I., Soldatenko, I.S. and Romaniy, Ye.V.

TITLE: Production of Coarse Crystalline Ammonium Sulphate (Polucheniye ukrupnennoy soli sul'fata ammoniya)

PERIODICAL: Koks i Khimiya, 1958, Nr 8, pp 33 - 34 (USSR)

ABSTRACT: The negative influence of trivalent iron present in the mother liquid on the size of the ammonium sulphate crystals obtained was demonstrated in the laboratory and industrial experiments. In the industrial experiments, the reduction of trivalent iron was carried out by intermittent additions (every hour) of 1 litre of hyposulphite solutions (10%) to the circulating vessel. The duration of the experiment was 6 shifts. A marked improvement in the size distribution of the sulphate produced was obtained (the proportion of 0.5-0.25 mm fraction increased from about 30 to over 50%). There are 3 tables.

Card 1/2

Production of Coarse Crystalline Ammonium Sulphate SOV/68-58-12/28

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut (Kharkov Polytechnical Institute) and Kharkovskiy koksokhimicheskiy zavod (Kharkov Coking Works)

Card 2/2

1. Ammonium sulfate crystals--Production 2. Iron--Reduction
3. Thiosulfates--Applications

TYUTYUNNIKOV, Yu.B. TSEPURIT, V.Ya.; LUKASHENKO, B.Ya.; SOLDATENKO, I.S.

Experimental and industrial preparation and coking of coals of the Lvov-Volyn Basin. Koks i khim. no.11:5-8 '61. (MIRA 15:1)

1. L'vovskiy sovnarkhoz (for Tyutyunnikov, TSepurit, Lukashenko).
2. Khar'kovskiy koksokhimicheskiy zavod (for Soldatenko).
(Lvon-Volyn Basin--Coke)

ACC NR: AP6033916 (N) SOURCE CODE: UR/0413/66/000/020/0159/0159

INVENTOR: Georgi, N. V.; Kotlyar, L. I.; Soldatenko, L. S.

ORG: None

TITLE: A hydrodyanmic plate emitter of ultrasonic waves. Class 42, No. 187424 [announced by the Odessa Technological Institute im. Lomonosov (Odesskiy tekhnologicheskiy institut)]

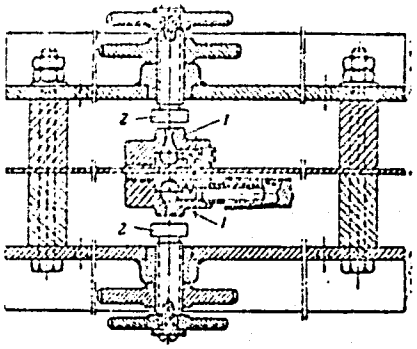
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 159

TOPIC TAGS: ultrasonic emitter, hydrodynamics

ABSTRACT: This Author's Certificate introduces a hydrodynamic plate emitter of ultrasonic waves. The unit contains a controllable resonating plate and nozzles fastened in a common frame. The power of the ultrasonic field is increased by rigidly fastening two conoidal nozzles on both sides of the resonating plate. Opposite the outlet apertures of the nozzles are reflecting discs which are moved through a fixed distance.

Card 1/2 UDC: 534.232:532.5

ACC NR: AP6035916



1—nozzles; 2—disc reflectors

SUB CODE: 20/ SUBM DATE: 05Oct64

Card 2/2

SOLDATENKO, V.A.; FUNDYLER, I.M., inzh.

New lighting equipment. Sudostroenie 29 no.7:62 Jl '63.
(MIRA 16:9)

(Plastics—Optical properties) (Ships' lights)

Soldatenko, V.I.

USSR.

Making intricate castings of magnesium-bearing iron. V. I. Soldatenko, M. I. Rotenberg, and V. M. Yangunaev. Liteinoe Proizvodstvo 1955, No. 2, 5-6.—Castings contg. more than 0.06% Mg always contain nonmetallic inclusions in their upper portions. They can be eliminated by adding to the iron, having a compn. detd. by the nature of the casting, about 0.5% Mg introduced in the ladle with a bell, slagging, adding to the ladle 10-18% iron together with 75% FeSi to bring the Si content to 0.8-1.0%, and casting. After addn. of Mg the iron contains 0.07-0.12% Mg, but after addn. of FeSi it drops to 0.02-0.05% Mg.

I. D. Gat

ROTENBERG,M.I.; SOLDATENKO,V.I.; MEL'NIKOVA,Ye.A.

Technology of founding magnesium cast iron crankshafts. Lit.proizv. no.9:22-24 S'55. (MLRA 8:12)
(Iron-magnesium alloys) (Cranks and crankshafts)

SOLDATENKO V.I.

1402* Making Hollow Cores in Small-Scale Production. Izgotovlenie obolochkovykh sterzhnei pri melkoseriinom proizvodstve. (Russian.) M. I. Rotenberg, V. I. Soldatenko, and A. P. Shkarin. *Liteinoe proizvodstvo*, 1955, no. 10, Oct., p. 1-3.

Describes application of casing molds for small-scale mass-casting. It is very economical for production line use, as well as for small-scale operation. Gives details of mechanization of the above process. Tables, diagrams, photograph.

HG

ROTENBERG, M.I., inzhener; SOLDATENKO, V.I., inzhener.

Semiautomatic machine for manufacturing shell cores. Lit. proizv. no.8:19-21 Ag '56. (MLRA 9:10)

(Coremaking) (Shell molding (Founding))

ROTENBERG, M.I., inzhener; SOLDATENKO, V.I., inzhener.

Casting magnesium-iron cylinder heads for internal combustion engines. Lit.proizv. no.11:23-25 N '56. (MIRA 10:1)
(Magnesium-iron alloys) (Machine molding (Founding))
(Gas and oil engines)

SOLDATENKO, Vladimir Ivanovich; ROTENBERG, Moisey Isakovich; GRUSHEVSKAYA, G.M., redaktor izdatel'stva; MODEL', B.I., tekhnicheskiy redaktor

[Experience in introducing new founding techniques] Opyt vnedreniia novoi liteinoi tekhnologii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 70 p. (MLRA 10:5)
(Founding)

SOV-128-58-7-18/20

AUTHORS: Rotenberg, M.I., and Soldatenko, V.I., Engineers

TITLE: Letter to Editors (Pis'mo v redaktsiyu)

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 7, p 32 (USSR)

ABSTRACT: This is a letter of justification by the authors who had published an article "Casting Complex Parts of Magnesium Iron", in "Liteynoye proizvodstvo", Nr 2, 1955, and were accused by Bobrov and Zimin of presenting the work of others as their own

1. Iron-magnesium alloys--Casting

Card 1/1

18(5,7)

SOV/128-59-5-4/35

AUTHOR: Soldatenko, V.I., and Rotenberg, M.I., Engineers

TITLE: Method of Minimizing Non-Metalic Inclusions in Magnesium Iron

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 5, pp 7-8 (USSR)

ABSTRACT: In the Diesel locomotive engine plant at Kolombesk, it rather often happened that non-metallic inclusions took place when using magnesium iron. The ratio of the magnesium contents in the iron to the depth of the non-metallic inclusions can be seen in Fig.(1). The new method for removing the non-metallic inclusions is based on the process of heating 70% of the iron which has to be treated with magnesium up to 1450-1460°C. in an electro-furnace and 0.4 -0.5% magnesium are added. The remaining 30% of the cast iron is heated up to 1550-1600°C. After cooling down the iron which has been treated with magnesium to 1380 - 1400°C both parts are cast together, a temperature of 1450°C. resulting. At this temperature a dry piece of wood

Card 1/2

Method of Minimizing Non-Metallic Inclusions in Magnesium Iron

is drawn through the molten mass for 2-3 minutes. At a temperature of 1390 - 1420°C the treated thus iron is cast into molds. There are 1 diagram and 5 Soviet references

18(57

SOV/128-59-6-1/25

AUTHORS: Rotenberg, M.I. and Soldatenko, V.I., Engineers

TITLE: Casting Nodular Iron Crankshafts for Diesel Locomotives

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 6, pp 1-4 (USSR)

ABSTRACT: Until 1958 crankshafts for 10 cylinder diesel engines 4.282 mm long had been cast from alloyed grey cast iron After running successful shop tests, the diesel locomotive plant at Kolomna has started to produce crankshafts, made only from magnesium alloyed cast iron without the admixture of molybdenum and nickel. Such a change was necessary to save precious metals and manpower. After a service life of 230.000 km it was obvious that crankshafts made from magnesium alloyed cast iron had a longer operating life than those made from fluke type graphite cast iron. Annual savings amount to 2,5 million rubles. Tables listing the results of the experiments are published. The authors describe the pouring method, the patterns, the mold boxes, the core material, the composition of the black wash and the

Card 1/3

Casting Nodular Iron Crankshafts for Diesel Locomotives

method of heat treatment: first deposition for 6 to 8 hrs at 860° to 880°C, later 760° to 780°C, followed by 300°C, etc., by which treatment the microstructure and the mechanical properties are improved. This type of treatment does not suffice for the two ends of the crankshaft. In connection with the sulphuric contents of the pig iron, "black dots" appear on the surface of the casting. To determine the depth of these defects the crankshaft had been cut. After grinding and polishing, micro-photos (according to the Baumann method) were made from the test cuts. There follows a table listing those tests made, to determine the decrease in quality originated by the "black dots". It amounts to 40%. Therefore, measures are necessary to bar the appearance of these dots at the most stressed points of the crankshaft (at the bearing areas). There are many methods of fighting the "black dots", e.g. smelting of the cast iron by means of electric furnaces, by which method the residual of sulphur goes down to 0,002% to

Casting Nodular Iron Crankshafts for Diesel Locomotives

0,008% and the appearance of dots (i.e. magnesium sulphide) is prohibited. There are 3 photographs, 12 graphs and 3 diagrams.

SOLDATENKO, V.I.

Casting of cylindrical sleeves. Lit. proizv. no.1:33-35 Ja '61.
(MIRA 14:1)

(Founding)

SOLDATENKO, V.I.; CHIMINOV, V.V.

Use of chemically hardenable mixtures. Lit. proizv. no. 2:38-39 F '61. (MIRA 14:4)
(Sand, Foundry) (Binding materials)

KOMAROVSKIY L.Ye.; PRIKHOD'KO, Yu.N.; SOLDATENKO, V.I.; MAZUR, V.V.; VESELOVSKAYA, T.I., red.

[Selecting an optimal grinding set for preparing pulp for condenser paper] Vybor optimal'noi razmalyvaiushchei garnitury pri podgotovke massy dlia kondensatornoi bumagi. Moskva, TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon. issledovanii po lesnoi, tselliulozno-bumazhnoi, derevoobrabatyvaiushchei promyshl. i lesnomu khoz., 1964. 15 p. (MIRA 17:12)

SOLDATENKO, V.P., Engineer

"Investigation of the Crankcase of V-type Aircraft Engines." Thesis for degree of Cand. Technical Sci. sub 30 Oct. 49, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze.

Summary 82, 18 Dec. 52, Dissertations Presented for degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Msokva, Jan-Dec. 1949.

SOLDATENKO, V.Ye., inzh.

Electric liquid level indicator. Avt. dor. 22 no.5:21-22 My '59. (MIRA 12:8)
(Liquid level indicators)

Soldatenko Ye M.

68-58-2-5/21

AUTHORS: Stepanenko, M.A., Soldatenko, Ye.M., Matusyak, N.I. and Bogoyavlenskiy, K.A.

TITLE: X-ray Analysis of Pitch Cokes (Rentgenostrukturnyy analiz pekovykh koksov)

PERIODICAL: Koks i Khimiya, 1958, Nr 2, pp 31 - 35 (USSR)

ABSTRACT: Results of X-ray structural investigations of pitch cokes from Zaporozhe, Khanzhenskovsk and Kemerovsk Coke Oven Works are described. In the evaluation of pitch coke as a raw material for the electrode industry, the most important is not so much its initial characteristics, but the dynamics of changes of the individual indices on thermal treatment and in particular the ability to increase the density. Therefore, not only initial samples were studied, but also samples which were submitted to ignition and graphitisation in industrial furnaces of the Dneprovsk Electrode Works. In addition to parameters of X-ray structural analysis, as indices characterising the coke substance and its structure, the chemical composition, specific gravity and specific electrical conductivity were determined. Copper radiation with a nickel filter was used for X-ray powder photographs. As a criterion of the degree of order, the sizes of "packets" along c and a axis were taken, i.e. the width of interference bands (002) and (10)

Card1/2

X-ray Analysis of Pitch Cokes

68-58-2-5/21

The results obtained are assembled in the table.
There are 2 figures, 1 table and 7 Soviet references.

ASSOCIATION: UKhIN

AVAILABLE: Library of Congress

Card 2/2

1. Coke - Properties 2. Coke - Structural analysis
3. Coke - X-ray analysis 4. X-rays - Applications

18 (7)

AUTHORS: Bogoyavlenskiy, K. A., Soldatenko, Ye. M.

SOV/32-25-5-14/56

TITLE: Quantitative Determination of the Content of Cyclic Polymerized Carbon in Coke (Kolichestvennoye opredeleniye soderzhaniya v kokse tsiklicheski polimerizovannogo ugleroda)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 562-564 (USSR)

ABSTRACT: It is shown that by the evaluation of the integral intensity of individual maxima in photometric recording curves of roentgenograms an approximately quantitative determination of the content of well structured carbon may be carried out in high-carbonized compounds. The roentgenogram (R) of a coke actually represents the sum of some (R) - 1. The (R) of the completely disordered substance, 2. The (R) of the dimetrically ordered lattice of the graphite type, 3. The (R) of "blocks" which consist of some parallel lattices. The maximum (002) is present in all (R) carbonized compounds, and is especially strongly marked in coke, for which reason the evaluation takes place according to this maximum in the present case. The method was applied, that had been worked out on the basis of phase analysis by the admixture of a

Card 1/3

standard sample. Sodium fluoride served as standard sample. The calibration curves were plotted according to a mixture of Acheson graphite with NaF (Fig 2). The (R) were taken on an instrument VNIIO-5 (electron tube construction according to Dudavskiy and Chuprinin) and measured on the microphotometer MF-2. Mixing of the sample with NaF must be made very carefully, under certain conditions, as otherwise deviations may occur with different samples of the same composition. The integral density of blackening was determined as a surface lying between the curve of the maximum and the background line (Fig 1 photometric recording curve of (R) of a coke mixture of the Zaporozh'skiy koksokhimicheskiy zavod (Zaporozh'ye Coke Chemical Factory)). Results obtained from roentgenographic investigations of this type show that, for example, metallurgical coke types of the Donbass Factories differ in their fine structure, in which connection a considerable difference may be observed in the content of structured carbon. There are 2 figures, 2 tables, and 1 reference.

Quantitative Determination of the Content of Cyclic Polymerized Carbon in Coke

SOV/32-25-5-14/56

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy uglekhimicheskiy institut (Ukraine Scientific Research Institute of Coal Chemistry)

Card 3/3

BOGOYAVLENSKIY, K.A.; Prinimal uchastiye SOLDATENKO, Ye.M.

Effect of the secondary thermal processing on the structure of the metallurgical coke. Koks i khim. no.3:23-27 '62. (MIRA 17:2)

1. Ukrainskiy uglekhimicheskiy institut.

SHPIL'RAYN, E.E., kand. tekhn.nauk; SOLDATENKO, Yu.A., aspirant, red.

[Collection of problems in the thermodynamics of solutions] Sbornik zadach po termodinamike rastvorov. Red. IU.A. Soldatenko. Moskva, Mosk. energ. in-t, 1957. 71 p. (MIRA 11:7)

1. Kafedra inzhenernoy teplofiziki (for Shpil'rayn).
(Solution (Chemistry))

SOLDATENKOV, A. (Krasnoyarsk).

Obligations put into practice. Grazhd. av. 14 no.4:9 Ap '57. (MIRA 10:6)

1. Zamestitel' nachal'nika politotdela Krasnoyarskogo territorial'nogo upravleniya.
(Krasnoyarsk--Aeronautics, Commercial)

SOLDATENKOV, I.

When everybody competes. Grazhd. av. 21 no.8:6-7 Ag '64.
(MIRA 18:4)

1. Predsedatel' Krasnoyarskogo territorial'nogo komiteta professional'nogo soyuza aviatsionnykh rabotnikov.

GOLOVKIN, Mikhail Pavlovich; NAUMOV, A.F., retsenzent; NAUMKIN, A.N., inzh., retsenzent; RAMODIN, V.N., inzh., retsenzent; SOLDATENKOV, A.G., retsenzent; YEFIMOV, G.P., kand.tekhn.nauk, red.; MEDVEDEVA, M.A., tekhn. red.

[Design and operation of motor operated loaders] Ustroistvo i ekpluatatsiia avtopogruzchikov. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 77 p. (MIRA 14:12)

1. Abkhasian A.S.S.R. Statisticheskoye upravleniye.
(Abkhazia--Statistics)

GL'YANOV, I.A., inzh.; SOLDATENKOV, A.P., inzh.; DMITRIYEV, V.K., inzh.; MASKIN, M.G., inzh.; POZIGUN, L.V., inzh.; DUKTOVSKAYA, O.A., inzh.; CHEKUNOV, I.N., inzh.; LIOKUMOVICH, Ye.F., inzh.; KAPITONOVA, Z.I., inzh.; LEVITSKIY, Ya.B., otv. red.; ROMANOVA, L.A., red. izd-va; OVSEYENKO, V.G., tekhn.red.

[Coals of the U.S.S.R.]Ugli SSSR; spravochnik. Moskva, Gos gortekhizdat, 1962. 318 p. (MIRA 15:11)

(Coal)

UL'YANOV, I.A.; ISTOMIN, L.I.; NOVIKOV, D.T.; SOLDATENKOV, A.P.

Introduction of electronic computers into coal supply planning.
Ugol' 39 no.11:45-48 N '64. (MIRA 18:2)

L 15266-65 EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(b) Pf-4 ASD(m)-3 JD/HM
ACCESSION NR: AP5001436 S/0125/64/000/010/0067/0068

AUTHOR: Bystrov, A. V.; Shalimov, A. P.; Soldatenkov, G. A. B

TITLE: Electroslag welding of open-hearth furnace buckstays

SOURCE: Avtomaticheskaya svarka, no. 10, 1964, 67-68

TOPIC TAGS: electroslag welding, metallurgical furnace, power welding equipment, welding electrode/ A-535 welder

Translation: Buckstays for open-hearth furnaces are heavy columns of rectangular cross section 150x460 mm with several bends. They were formerly made by bonding packets with a thickness of 150 mm from plates with thicknesses of 15, 25 and 30 mm cut from sheets with the contour of the buckstay.

By the new method, the buckstays are made up of slabs with a thickness of 150 mm, and welded by the electroslag method, the individual slabs being welded at the bend points of the contour. The ends of the slabs are not finished since oxygen cutting assures sufficient accuracy for the cut (± 2 mm). The stands are set up on a special jig for welding. There is a V-shaps gap (30 mm at the bottom, 33 mm at the top) to allow for shrinkage after welding. Welding is done on a type A-535 automatic machine built by the Electric Welding

Card 1/3

L 15266-65
ACCESSION NR: AP5001436

Institute im. Ye. O. Paton under the following conditions: I_w = 1600-1800 a, U = 36-38 v, V_w = 0.54-0.6 meters per hour electrode, V = 1.6-1.8 meters per hour, depth of welding bath 30-35 mm, single electrode, power supply--three phase transformer type TShS-1000-3, switched to single-phase operation for welding with plate electrode.

The electrode is a plate of 09G2 steel (GOST 5058-57) 10 mm thick with a width equal to the thickness of the metal being welded. When the seam is 460 mm long, an electrode with a length of 2200 mm is used.

Studies showed that the seam has satisfactory mechanical properties without subsequent heat treatment: σ_t = 29-31 kg/mm^2, σ_v = 42-43 kg/mm^2, δ = 27-32%, a_n = 3.7-6.7 kg/mm^2. The chemical composition of the base metal, electrode metal, and seam metal is shown in the table. It was established by ultrasonic inspection that there were no flaws in the seam. With three-shift work, a set of buckstays for an open-hearth furnace (104 seams) was welded in 12 days. In the first few days, two welds were made per shift, the productivity subsequently being increased to five welds. As a result of the use of this new method for welding open-hearth buckstays, the KMK saves 53 tons of metal and 5400 rubles yearly. The first welded stand was put into operation in April 1963 and is still in use. Orig. art. has 2 figures.

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L 15266-65
ACCESSION NR: AP5001436

Metal	Content %					
	C	Mn	Si	P	S	Cr
Base	0.19	0.40	trace	0.021	0.047	trace
Electrode	0.15	1.66	0.39	0.016	0.045	"
Seam	0.15	0.61	0.08	0.018	0.033	"

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine)

SUBMITTED: 24Jun64 ENCL: 00 SUB CODE: IE, MM

NO REF SOV: 000 OTHER: 000 JPRS

Card 3/3

SOLDATENKOV, I.S. (g. Minsk).

Apparatus for obtaining gases. Khim. v shkole 12 no.3:36-38 My-Je '57. (MLRA 10:6)

(Chemical apparatus)

SOLDATENKOV, I.S. (g. Minsk)

Working model of sulfuric acid manufacture by the contact process. Khim. v shkole 13 no.6:43-47 N-D '58.
(MIRA 11:12)

(Sulfuric acid)

SOLDATENKOV, I. (Minsk)

Handmade apparatus for the purification and drying of gases. Khim. v. shkole 15 no.6:63-64 N-D '60. (MIRA 13:11)
(Chemical apparatus)

SOLDATENKOV, I.S. (Minsk)

Funnel with a safety reservoir. Khim. v shkole 16 no.2:69-70 Mr-Ap '61. (MIRA 14:6)

(Chemical apparatus)

SOLDATENKOV, M.S.

Surgical treatment of cancer of the rectum with the preservation of its closing apparatus and the indications for it. Akt. vop. prokt. no.2:200-204 '63 (MIRA 18:1)

SOLDATENKOV, M.S.

Operative treatment of cancer of the rectum. Sov. med. 25 no.10: 81-86 O '61. (MIRA 15:1)

1. Iz kafedry gospital'noy khirurgii (zav. - zasluzhennyy deyatel' nauki prof. A.A.Ogloblin) Smolenskogo meditsinskogo instituta (dir. - dotsent G.M.Starikov).
(RECTUM--CANCER)

SOLDATENKOV, N.I.

Soldatenkov, N.I. "Breeding work with 'Lebedin Swiss'", Trudy (Akad. nauk SSSR, Tadzh. filial, In-t eksperim. zootekhnii), Vol. XXIII, 1948, p. 59-94,- Bibliog: 47 items.

SO: U-411, 17 July 53, (Letopis' Zhurnal 'nykh Statey, No. 20, 1949)

SOLDATENKOV, N. I.

Soldatenkov, N. I. "On hybrid Anglo-'lok' and Anglo-Arabian -'lok' horses", Soobshch. Tadzh. filiala Akad. nauk SSSR, Issue 14, 1949, p. 22-27, -Bibliog: 7 items.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

PLESHKO, Semen Ivanovich [deceased]; SOLDATENKOV, N.I., otv.red.; FROLOV, P.M., tekhn.red.

[Feedstuffs of Tajikistan] Korma Tadzhikistana. Stalinabad. Izd-vo AN Tadzh.SSR. 1957. 195 p. (Akademiia nauk Tadzhikskoi SSR. Stalinabad. Trudy, vol.34) (MIRA 12:6)
(Tajikistan--Feeds)

SOLDATENKOV, N.I., kand.sel'skokhozyaystvennykh nauk

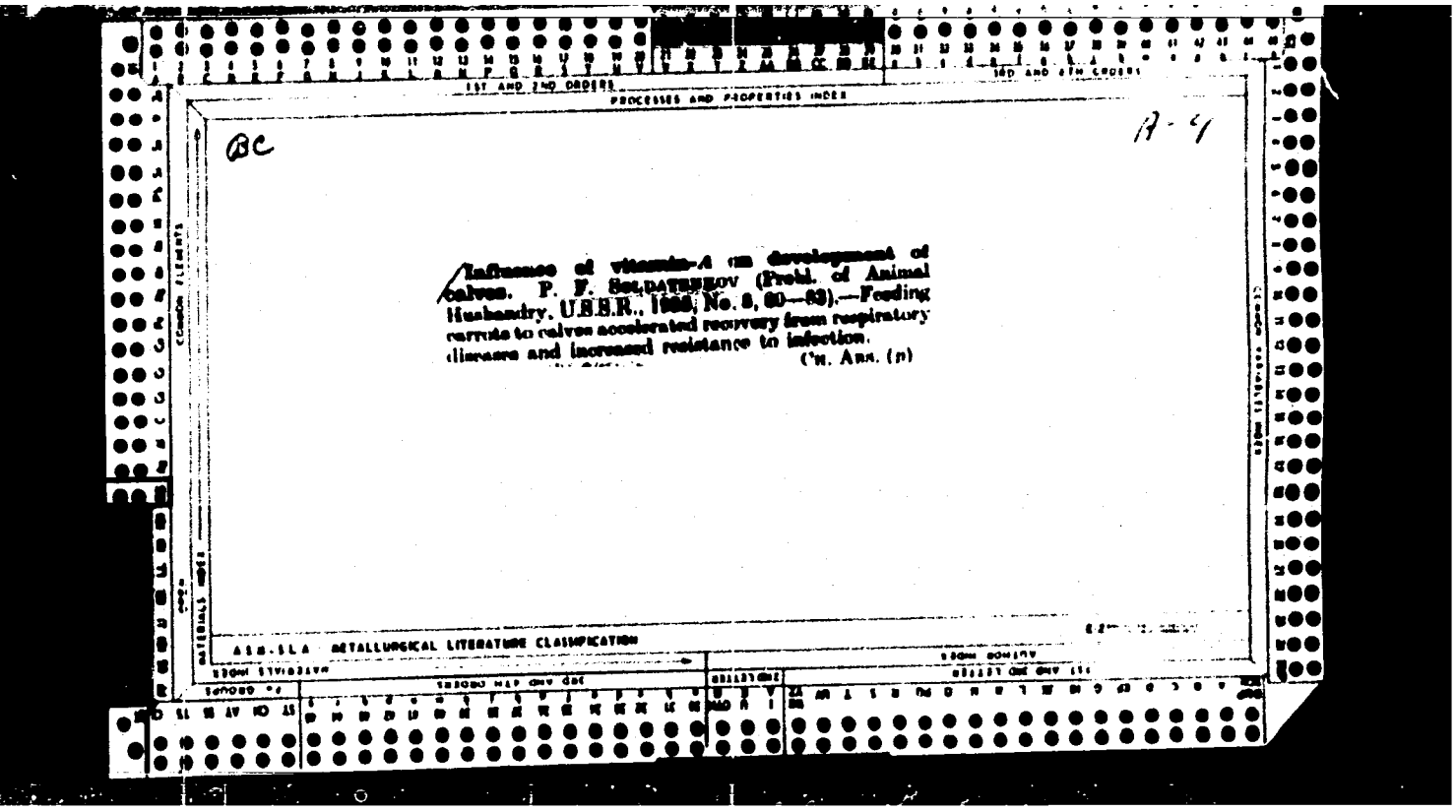
Acclimatizing Baltic cattle to Tajikistan. Zhivotnovodstvo 21 no.2: 53-55 F '59. (MIRA 12:3)

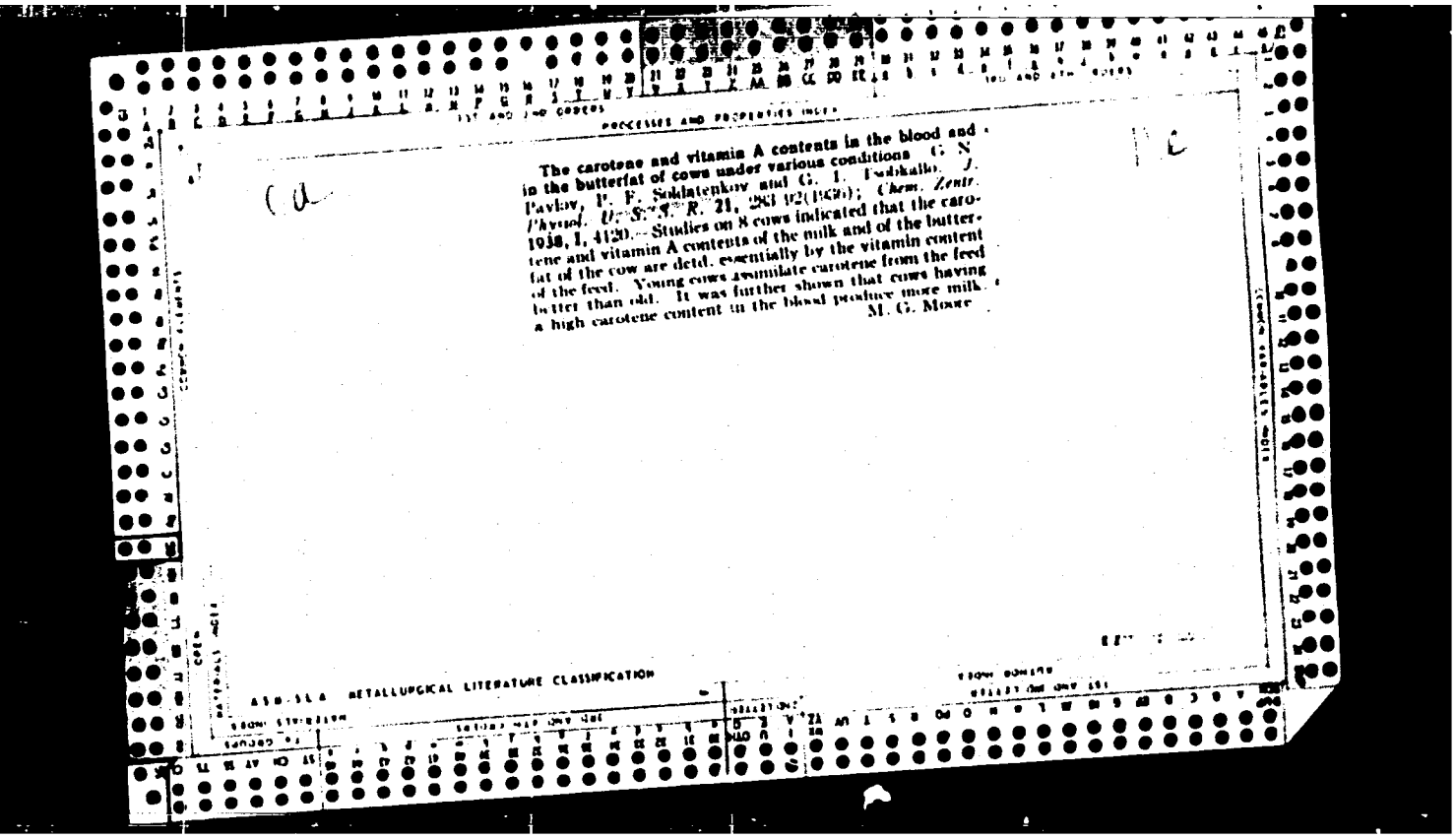
1. Tadzhikskiy nauchno-issledovatel'skiy institut zhivotnovodstva i veterinarii.

(Tajikistan--Cattle breeds)

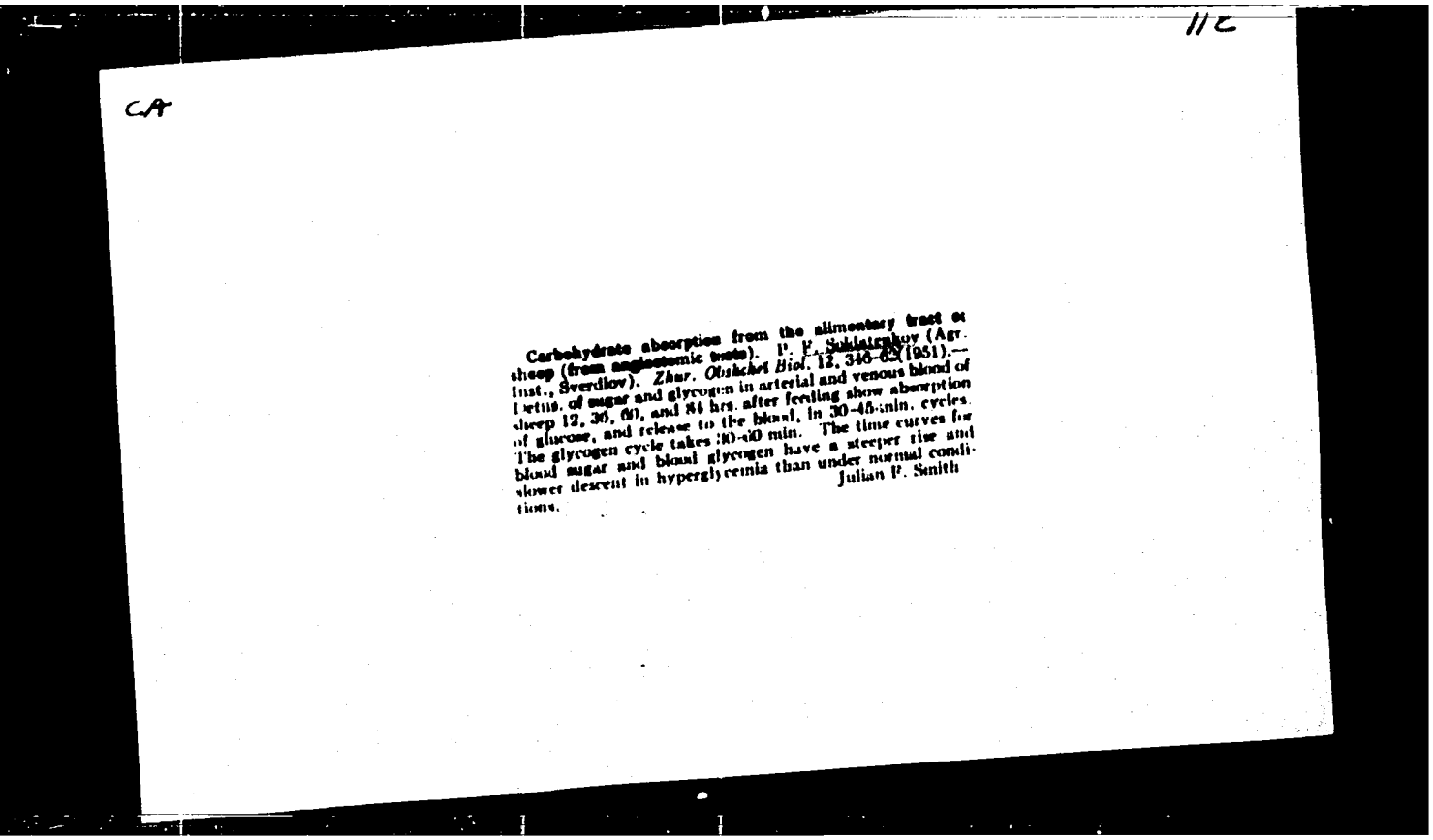
NIKOLAYEV, I; PODVA, M; YURCHENKO, A. (Berdyansk); BABYNIN, A. (Belgorod); NEMIROVSKIY, V. (Khabarovsk); FARBEROV, S. (Mogilev); SOLDATENKOV, O. (Khimki, Moskovskaya obl.)

Brief notes. Sov.foto 18 no.10:86-87 O '58. (MIRA 11:11)
(Photography)





The carotene and vitamin A contents in the blood and in the butterfat of cows under various conditions. G. N. Pavlov, P. F. Soldatenkov and G. I. Fedikalo. *J. Physiol. U.S.S.R.* 21, 283-92(1936); *Chem. Zentr.* 1938, I, 4130.—Studies on 8 cows indicated that the carotene and vitamin A contents of the milk and of the butterfat of the cow are detd. essentially by the vitamin content of the feed. Young cows assimilate carotene from the feed better than old. It was further shown that cows having a high carotene content in the blood produce more milk.
M. G. Moore



CA

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Carbohydrate absorption from the alimentary tract of sheep (from angiostomic tests). P. F. Sokolovskiy (Agr. Inst., Sverdlov). *Zhur. Obshchei Biol.* 12, 346-65 (1951).—Determns. of sugar and glycogen in arterial and venous blood of sheep 12, 36, 60, and 84 hrs. after feeding show absorption of glucose, and release to the blood, in 30-45-min. cycles. The glycogen cycle takes 80-90 min. The time curves for blood sugar and blood glycogen have a steeper rise and slower descent in hyperglycemia than under normal conditions.

Julian P. Smith

SOLDATENKOV, P.F.

Physiological significance of blood glycogen. Usp. sovrem. biol. 33 no. 3:380-390 May-June 1952. (CIML 22:4)

1. Sverdlovsk.

SOLDATENKOV, P.F.

Hematic, intestinal, and hepatic sugar and glycogen metabolism in sheep. Fiziol. zh. SSSR 39 no. 1:96-99 Jan-Feb 1953. (CLML 24:2)

1. Department of Physiology of Farm Animals of Sverdlovsk Agricultural Institute.

Soldatenkov, P.V.

EXCERPTA MEDICA Sec.2 Vol.10/4 Physiology,etc.Apr57

1808. SOLDATENKOV P.V. and GANIUSHKINA S.M. Lab. of Animal Physiol. and Biochem., Inst. of Biol. of the Ural Region, Acad. of Science of the USSR, Sverdlovsk. *Conditioned circulatory and respiratory reflexes in cattle FIZIOL. Z. 1956, 42/10 (893-897) Graphs 3 (Russian text)

Conditioned reflexes to the increase of cardiac minute volume, pulmonary ventilation and O_2 consumption after intramuscular injections of a 1% solution of adrenaline (unconditioned stimulus) were obtained in 3 young cows. The sound of a bell was used as conditioned stimulus. After 7-14 combined stimulations (ringing of the bell followed by adrenaline injection), conditioned circulatory and respiratory effects could be obtained when the sound of the bell was followed by an injection of saline. Positive conditioned reflexes to the acoustic signal without any reinforcement appeared somewhat later. The increase of the cardiac minute volume showed the most significant unconditioned (50 to 80%) and conditioned (20 to 30%) response. The conditioned reflex was stable; it was not extinguished after 19-20 unreinforced conditioned stimulations, though the intensity of the reaction declined progressively.

Simonson - Minneapolis, Minn.

SOLDATENKOV, P.F.; KOSTROMSKAYA, V.A.; YAKOVLEVA, K.K.

Effect of gamma rays from a 20 Mev. betatron and from Co^{60} on the cellular elements and blood sugar in rabbits. Dokl. AN SSSR 108 no.6:1065-1068 Je '56. (MLRA 9:10)

1. Ural'skiy filial Akademii nauk SSSR. Predstavleno akademikom L.A. Orbeli.

(GAMMA RAYS—PHYSIOLOGICAL EFFECT)

USSR/Human and Animal Physiology. The Nervous System T-12

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65760

Author : Soldatenkov P.F.
Inst : Tomsk University
Title : The Cortical Regulation of Certain Physiological Processes of Ruminants

Orig Pub : Tr. Tomskogo unOta, 1956, 143, 135-145

Abstract : A conditioned reflex for intermediary carbohydrate metabolism in sheep was established after 22 to 33 combinations of a whistle with an injection of insulin (increased formation of fat and its deposition in the fat depots). A high tolerance of the sheep toward insulin was established. A conditioned reflex for general metabolism and circulation was established in heifers after 7 to 14 combinations of a bell with an injection of adrenalin. A conditioned reflex for cardiac activity was established in cows through combining the sound of a metronome with an injection of caffeine. Conditioned-reflex

Card : 1/2

USSR / Farm Animals. Cattle.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40431.

Author : Soldatenkov, P. F., Meschaninov, S. I., Ganyushkina, S. M., Trukhina, Ye. P., Filatovich, V. V.
Inst : Not given.
Title : The Effect of Certain Feeds and Their Mixtures on the Physiological Processes and the Milk Fat Content in Cows of the Tagil Breed.

Orig Pub: Tr. In-ta biol., Ural'skiy fil. AN SSSR, 1957, vyp. 4, 84-96.

Abstract: As an addition to pasturing and green feed supplementation, dairy cows were given feed mintures, according to groups, as follows: 1st group - 60% of cottonseed meal, 30% of wheat bran, 10% of oatmeal; 2nd group - 35%, 30% and 35%, respectively; 3rd group - 10%, 30% and 60%, respectively. The aggregate amount

Card 1/2

[illegible] were determined. It was established that a high fat content in the milk was best maintained in the 2nd group. It is recommended, therefore, to include the feed mixture of content containing 35% of cottonseed meal in the rations of lactating cows.

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Card 1/1